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SEARCH REQUEST FORM

(50)

Scientific and Technical Information Center

Requester's Full Name: Kim McLean-Mayo Examiner #: 74597 Date: 9/12/05  
Art Unit: 2187 Phone Number: 2-4194 Serial Number: 101022521  
Mail Box and Bldg/Room Location: LAN 2A51 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.  
\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Reducing ABENDS THROUGH THE USE OF SECOND-TICK  
Inventors (please provide full names): SEE ATTACHED SHEET Storage  
Groups

Earliest Priority Filing Date: 2/6/02

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

ABENDS → abnormal end; synonyms → interrupt;  
ERROR OR  
premature end

Subject matter → adding/extending new  
storage/volumes/disk when the end of  
another storage has been reached

end-of-volume → synonym → last address/location  
of the storage (memory)

Problem to be solved → ~~the~~ current inability to  
extend the data set on another volume in  
a primary ~~storage~~ storage group

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Searcher: Geoffrey St. Lege Type of Search: NA Sequence (#) \_\_\_\_\_ STN \_\_\_\_\_  
Searcher Phone #: 28840 AA Sequence (#) \_\_\_\_\_ Dialog ✓  
Searcher Location: 4831 Structure (#) \_\_\_\_\_ Questel/Orbit \_\_\_\_\_  
Date Searcher Picked Up: 9/13/5 Bibliographic ✓ Dr. Link \_\_\_\_\_  
Date Completed: 9/14/5 Litigation \_\_\_\_\_ Lexis/Nexis \_\_\_\_\_  
Searcher Prep & Review Time: 50 Fulltext \_\_\_\_\_ Sequence Systems \_\_\_\_\_  
Clerical Prep Time: \_\_\_\_\_ Patent Family \_\_\_\_\_ WWW/Internet ✓  
Online Time: 210 Other \_\_\_\_\_ Other (specify) \_\_\_\_\_

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Set	Items	Description
S1	3589611	STORAGE OR VOLUME? ? OR DISK? ? OR DISC? ? OR DRIVE? ? OR - LOGICAL()UNIT? ? OR LUN OR LUNS
S2	1213	S1(5N) ((NO OR "NOT" OR T) (5W) (ROOM OR CAPACITY OR SPACE))
S3	1193	(ROOM OR CAPACITY OR SPACE) (7N) (RUN? ? OR RUNNING OR RAN OR EXHAUST??? OR USED()UP) (7N) S1
S4	320	S1(7N) (AT(2W)CAPACITY)
S5	10882	S1(5N) (FILLED OR FILL? ? OR FILLING)
S6	142	(END(5W)S1) (5N) (REACH??? OR ARRIV??? OR OCCUR????? OR ENCO- UNTER???)
S7	774	CAPACITY(5N)S1(5N) (REACH??? OR ARRIV??? OR OCCUR????? OR E- NCOUNTER???)
S8	1117	S1(10N) ((MORE OR ADDITIONAL OR EXTRA) (2W) (ROOM OR CAPACITY OR SPACE))
S9	122929	(PRIMARY OR MAIN OR FIRST OR 1ST OR INITIAL OR ORIGINAL) (3- W) (GROUP? ? OR GROUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S10	359193	(SECOND? OR 2ND OR BACKUP OR BACK()UP OR STANDBY OR STAND(- )BY OR DIFFERENT OR SEPARATE OR ANOTHER OR OTHER OR SUBSEQUENT OR FOLLOWING OR SUCCEEDING OR SUCCESSIVE) (3W) (GROUP? ? OR GR- OUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S11	588	STAND(3W) (GROUP? ? OR GROUPING? ? OR SET? ? OR CLUSTER? ? - OR TIER? ? OR LAYER? ?)
S12	16	S2:S8 AND S9 AND S10:S11
S13	10	RD (unique items)
S14	45	(S2:S4 OR S6:S8) AND S9:S11
S15	31	RD (unique items)
S16	25	S15 NOT PY=2003:2005
S17	1795	S1(3W)FILLED
S18	36	S17 AND S9:S11
S19	16	RD (unique items)
S20	13	S19 NOT PY=2003:2005
S21	829	ABEND? ? OR ABNORMAL??(3N) (END??? OR TERMINAT? OR CANCEL?)
S22	43778	(JOB? ? OR TASK? ? OR TRANSACTION? ? OR PROCESS OR PROCESS- ES OR REQUEST? ?) (3N) (END??? OR TERMINAT? OR CANCEL? OR ABORT? OR STOP???? OR HALT??? OR INTERRUPT? OR QUIT??? OR SUSPEND???)

OR DISCONTINU??? OR HANG???)

S23	3	(S2:S4 OR S6:S8 OR S17) AND S21:S22
S24	3	RD (unique items)
S25	3	ABEND? ? AND STORAGE
S26	3	RD (unique items)

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Set	Items	Description
S1	19470	AU=(SHYAM, S? OR ALLEN, S? OR LIANG, V? OR RAO, S? OR SHYAM S? OR ALLEN S? OR LIANG V? OR RAO S?).
S2	0	S1 AND ABEND?

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Set	Items	Description
S1	1221	AU=(SHYAM, S? OR ALLEN, S? OR LIANG, V? OR RAO, S? OR SHYAM S? OR ALLEN S? OR LIANG V? OR RAO S?)
S2	1	S1 AND ABEND?

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Set	Items	Description
S1	6029912	STORAGE OR VOLUME? ? OR DISK? ? OR DISC? ? OR DRIVE? ? OR LOGICAL()UNIT? ? OR LUN OR LUNS
S2	8787	S1(5N)((NO OR "NOT" OR T)(5W)(ROOM OR CAPACITY OR SPACE))
S3	17177	(ROOM OR CAPACITY OR SPACE)(7N)(RUN? ? OR RUNNING OR RAN OR EXHAUST??? OR USED()UP)(7N)S1
S4	1748	S1(7N)(AT(2W)CAPACITY)
S5	18807	S1(5N)(FILLED OR FILL? ? OR FILLING)
S6	9182	(END(5W)S1)(5N)(REACH??? OR ARRIV??? OR OCCUR????? OR ENCOUNTER??? OR OUT(1W)SPACE
S7	3374	CAPACITY(5N)S1(5N)(REACH??? OR ARRIV??? OR OCCUR????? OR ENCOUNTER???)
S8	21193	S1(10N)((MORE OR ADDITIONAL OR EXTRA)(2W)(ROOM OR CAPACITY OR SPACE))
S9	207233	(PRIMARY OR MAIN OR FIRST OR 1ST OR INITIAL OR ORIGINAL)(3-W)(GROUP? ? OR GROUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S10	559109	(SECOND? OR 2ND OR BACKUP OR BACK()UP OR STANDBY OR STAND - OR DIFFERENT OR SEPARATE OR ANOTHER OR OTHER OR SUBSEQUENT OR FOLLOWING OR SUCCEEDING OR SUCCESSIVE)(3W)(GROUP? ? OR GROUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S11	2285	S1(3W)FILLED
S12	19	(S2:S4 OR S6:S8 OR S11)(50N)S9(50N)S10
S13	289	(S2:S4 OR S6:S8 OR S11)(50N)S9:S10
S14	0	(S2:S4 OR S6:S8 OR S11)(50N)S9:S10(50N)(ABEND? ? OR ABNORMAL?(3N)END???)
S15	13	RD S12 (unique items)

Set	Items	Description
S1	8609	STORAGE OR VOLUME? ? OR DISK? ? OR DISC? ? OR DRIVE? ? OR - LOGICAL()UNIT? ? OR LUN OR LUNS
S2	5	S1(5N) ((NO OR "NOT" OR T) (5W) (ROOM OR CAPACITY OR SPACE))
S3	34	(ROOM OR CAPACITY OR SPACE) (7N) (RUN? ? OR RUNNING OR RAN OR EXHAUST??? OR USED()UP) (7N)S1
S4	0	S1(7N) (AT(2W)CAPACITY)
S5	18	S1(5N) (FILLED OR FILL? ? OR FILLING)
S6	4	(END(5W)S1) (5N) (REACH??? OR ARRIV??? OR OCCUR????? OR ENCO- UNTER???) OR OUT(1W)SPACE
S7	1	CAPACITY(5N)S1(5N) (REACH??? OR ARRIV??? OR OCCUR????? OR E- NCOUNTER???)
S8	23	S1(10N) ((MORE OR ADDITIONAL OR EXTRA) (2W) (ROOM OR CAPACITY OR SPACE))
S9	115	(PRIMARY OR MAIN OR FIRST OR 1ST OR INITIAL OR ORIGINAL) (3- W) (GROUP? ? OR GROUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S10	537	(SECOND? OR 2ND OR BACKUP OR BACK()UP OR STANDBY OR STAND(- )BY OR DIFFERENT OR SEPARATE OR ANOTHER OR OTHER OR SUBSEQUENT OR FOLLOWING OR SUCCEEDING OR SUCCESSIVE) (3W) (GROUP? ? OR GR- OUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S11	1	S2:S8 AND S9:S10

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File 349:PCT FULLTEXT 1979-2005/UB=20050908,UT=20050901

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Set	Items	Description
S1	1146763	STORAGE OR VOLUME? ? OR DISK? ? OR DISC? ? OR DRIVE? ? OR - LOGICAL()UNIT? ? OR LUN OR LUNS
S2	3376	S1(5N)((NO OR "NOT" OR T)(5W)(ROOM OR CAPACITY OR SPACE))
S3	2448	(ROOM OR CAPACITY OR SPACE)(7N)(RUN? ? OR RUNNING OR RAN OR EXHAUST??? OR USED()UP)(7N)S1
S4	247	S1(7N)(AT(2W)CAPACITY)
S5	23266	S1(5N)(FILLED OR FILL? ? OR FILLING)
S6	529	(END(5W)S1)(5N)(REACH??? OR ARRIV??? OR OCCUR????? OR ENCO- UNTER???)
S7	1063	CAPACITY(5N)S1(5N)(REACH??? OR ARRIV??? OR OCCUR????? OR E- NCOUNTER???)
S8	3519	S1(10N)((MORE OR ADDITIONAL OR EXTRA)(2W)(ROOM OR CAPACITY OR SPACE))
S9	200290	(PRIMARY OR MAIN OR FIRST OR 1ST OR INITIAL OR ORIGINAL)(3- W)(GROUP? ? OR GROUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S10	383580	(SECOND? OR 2ND OR BACKUP OR BACK()UP OR STANDBY OR STAND(- )BY OR DIFFERENT OR SEPARATE OR ANOTHER OR OTHER OR SUBSEQUENT OR FOLLOWING OR SUCCEEDING OR SUCCESSIVE)(3W)(GROUP? ? OR GR- OUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S11	434	S2:S8(50N)S9:S10
S12	63	S11 AND IC=G06F
S13	42	S12 AND AC=US/PR AND AY=(1970:2002)/PR
S14	42	S12 AND AC=US AND AY=1970:2002
S15	49	S12 AND PY=1970:2002
S16	57	S13:S15



File 347:JAPIO Nov 1976-2005/Apr(Updated 050801)

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File 350:Derwent WPIX 1963-2005/UD,UM &UP=200558

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S1	3281568	STORAGE OR VOLUME? ? OR DISK? ? OR DISC? ? OR DRIVE? ? OR - LOGICAL()UNIT? ? OR LUN OR LUNS
S2	1467	S1(5N)((NO OR "NOT" OR T)(5W)(ROOM OR CAPACITY OR SPACE))
S3	1636	(ROOM OR CAPACITY OR SPACE)(7N)(RUN? ? OR RUNNING OR RAN OR EXHAUST??? OR USED()UP)(7N)S1
S4	96	S1(7N)(AT(2W)CAPACITY)
S5	15592	S1(5N)(FILLED OR FILL? ? OR FILLING)
S6	173	(END(5W)S1)(5N)(REACH??? OR ARRIV??? OR OCCUR????? OR ENCO- UNTER???)
S7	423	CAPACITY(5N)S1(5N)(REACH??? OR ARRIV??? OR OCCUR????? OR E- NCOUNTER???)
S8	827	S1(10N)((MORE OR ADDITIONAL OR EXTRA)(2W)(ROOM OR CAPACITY OR SPACE))
S9	206897	(PRIMARY OR MAIN OR FIRST OR 1ST OR INITIAL OR ORIGINAL)(3- W)(GROUP? ? OR GROUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S10	287957	(SECOND? OR 2ND OR BACKUP OR BACK()UP OR STANDBY OR STAND(- )BY OR DIFFERENT OR SEPARATE OR ANOTHER OR OTHER OR SUBSEQUENT OR FOLLOWING OR SUCCEEDING OR SUCCESSIVE)(3W)(GROUP? ? OR GR- OUPING? ? OR SET? ? OR CLUSTER? ? OR TIER? ? OR LAYER? ?)
S11	136	S2:S8 AND S9 AND S10
S12	4	S11 AND IC=G06F
S13	322	S2:S8 AND S9:S10
S14	17	S13 AND IC=G06F
S15	13	S14 NOT S12